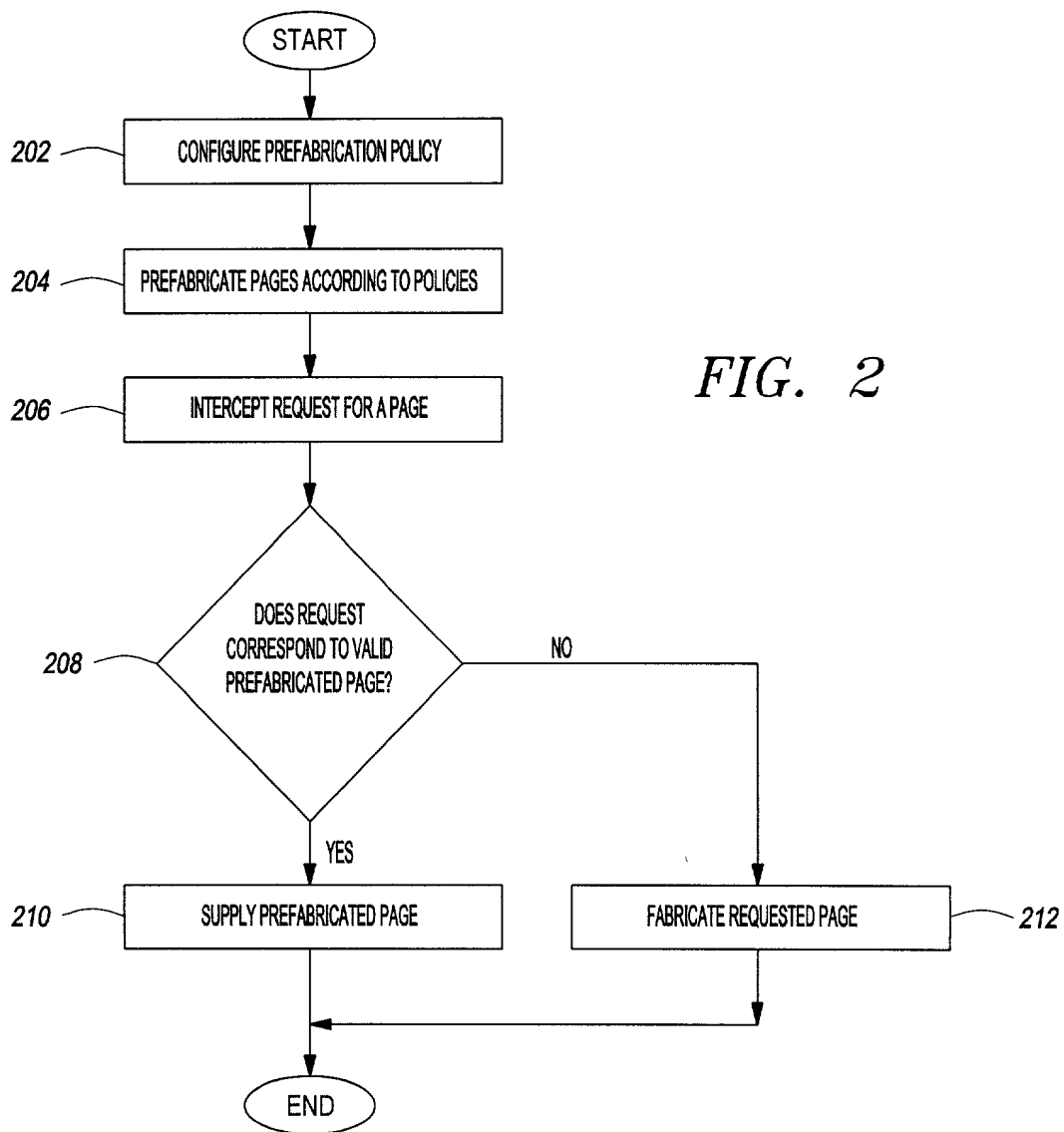
*FIG. 1*



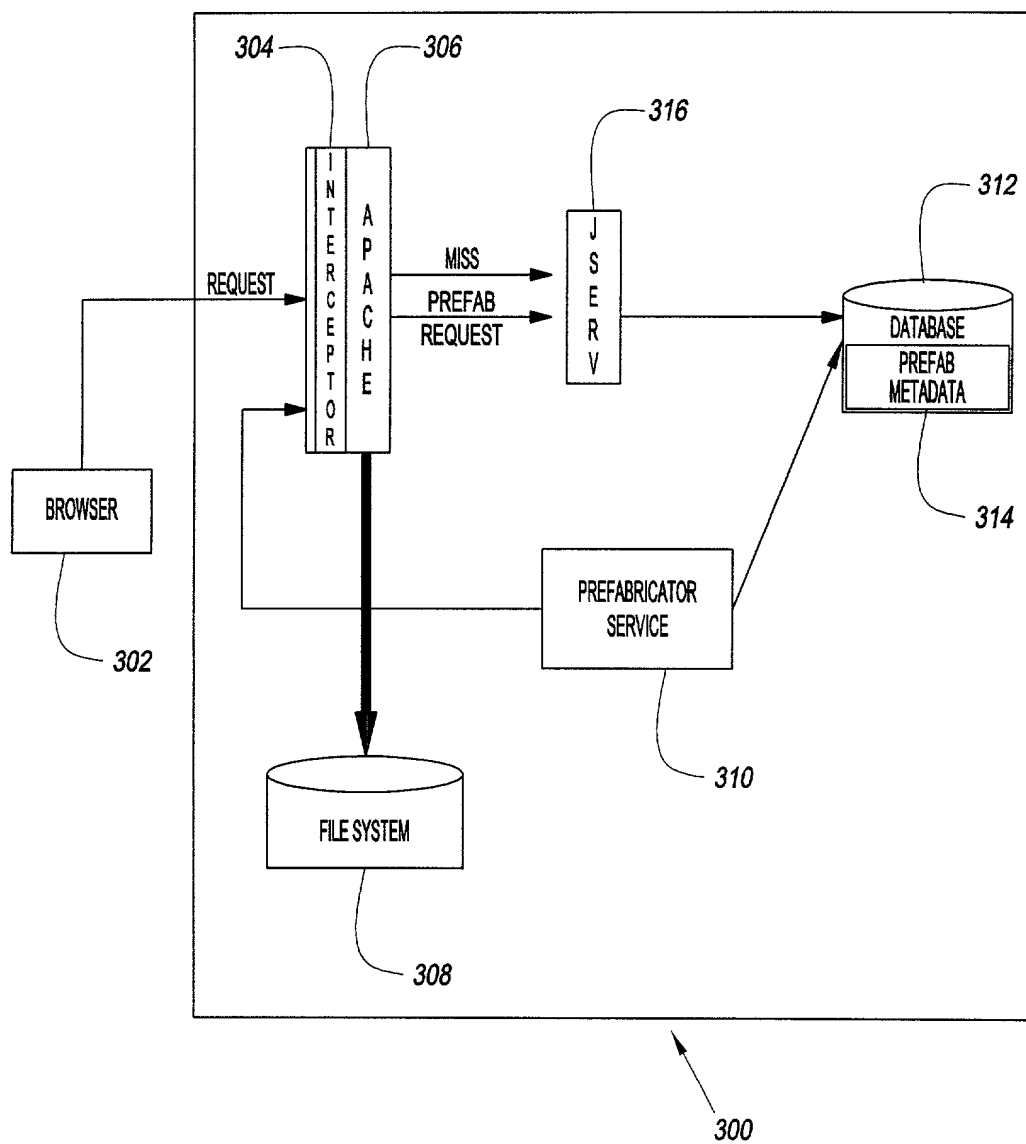


FIG. 3

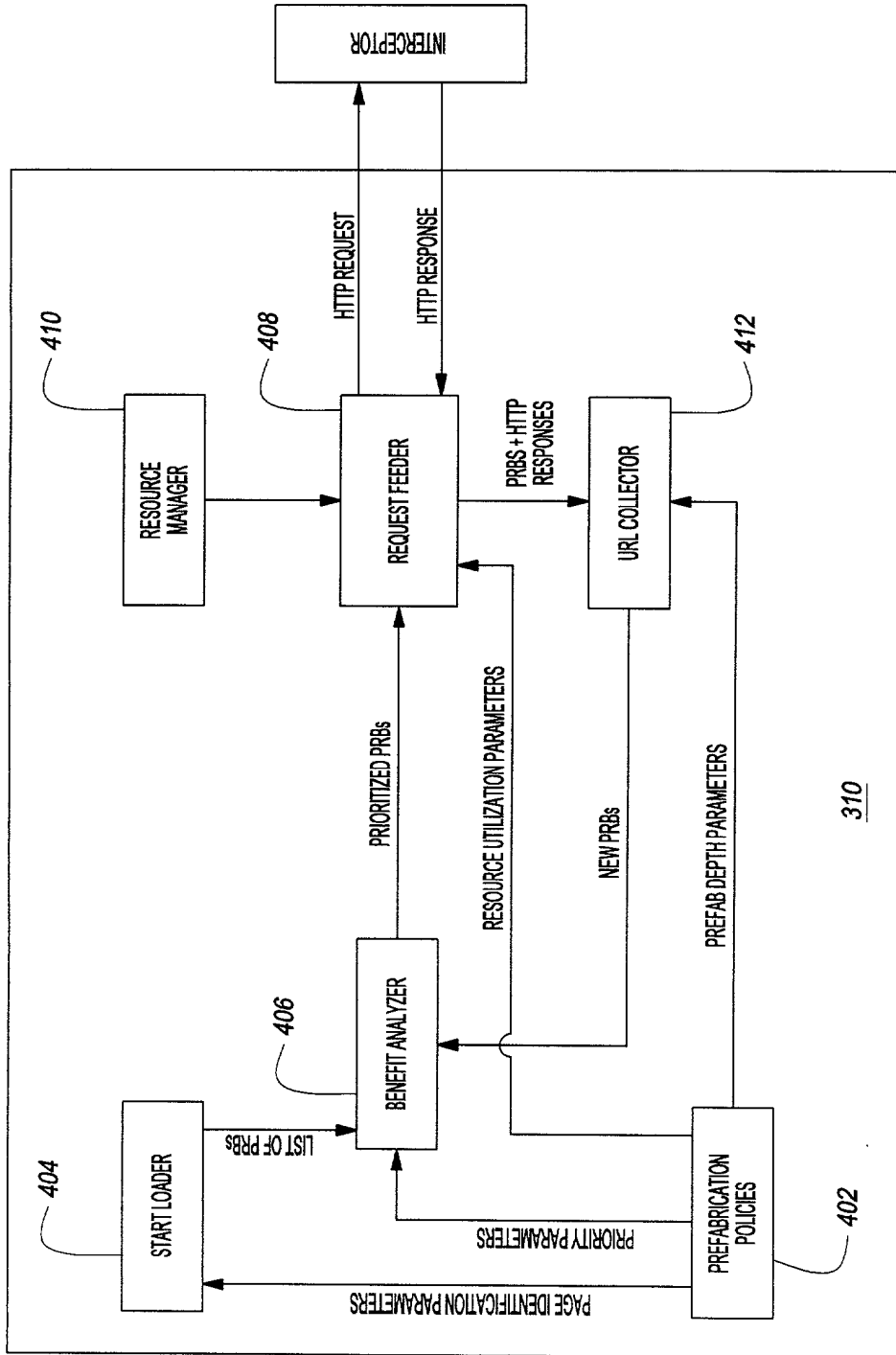


FIG. 4

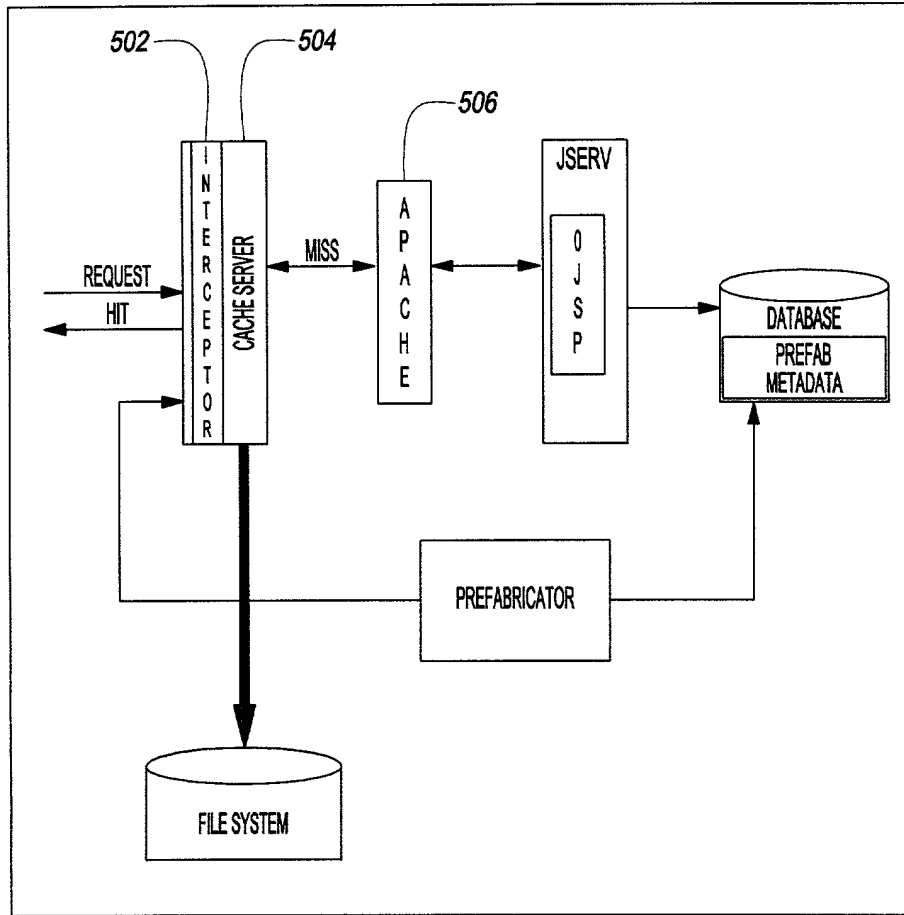


FIG. 5

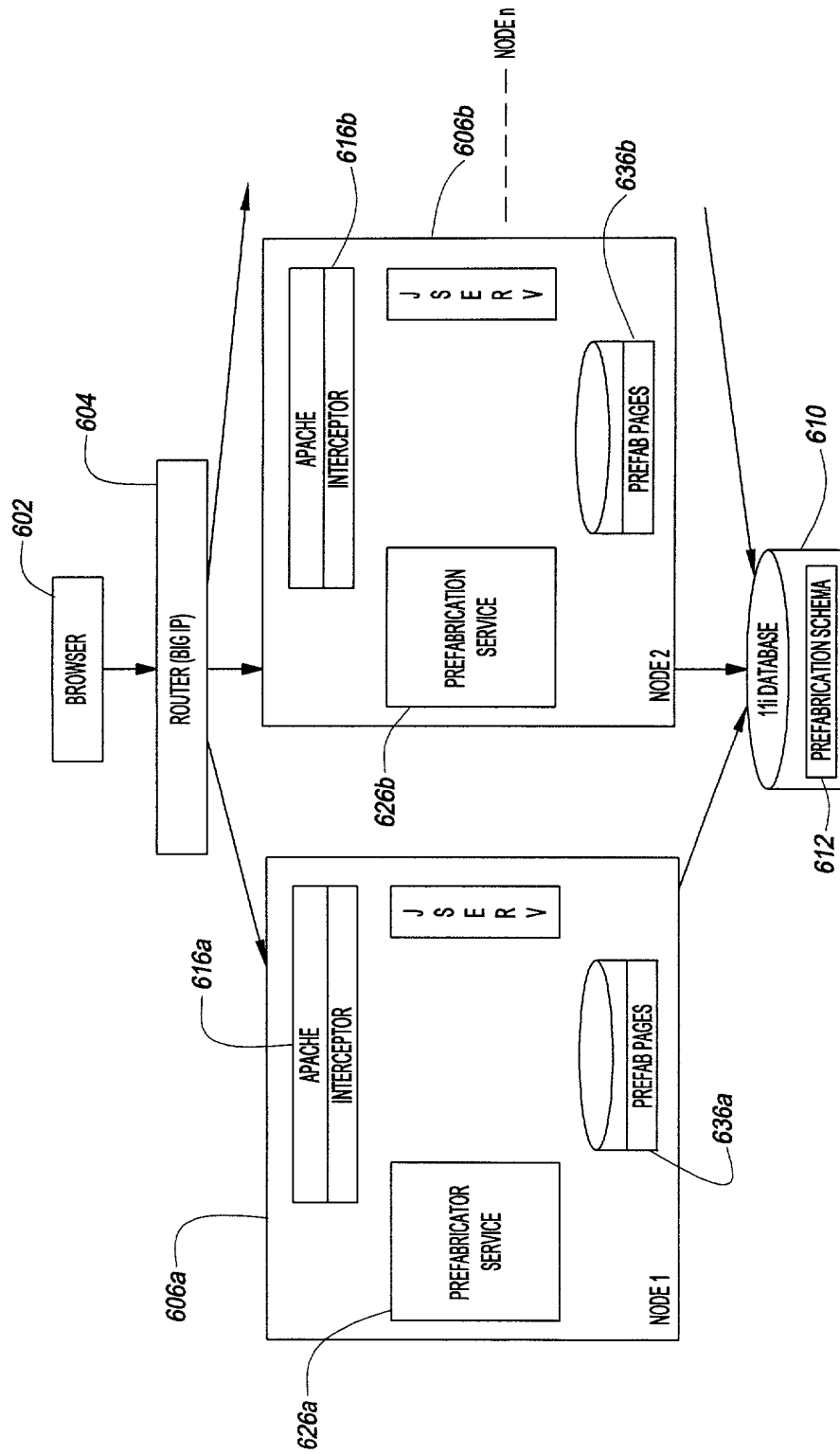
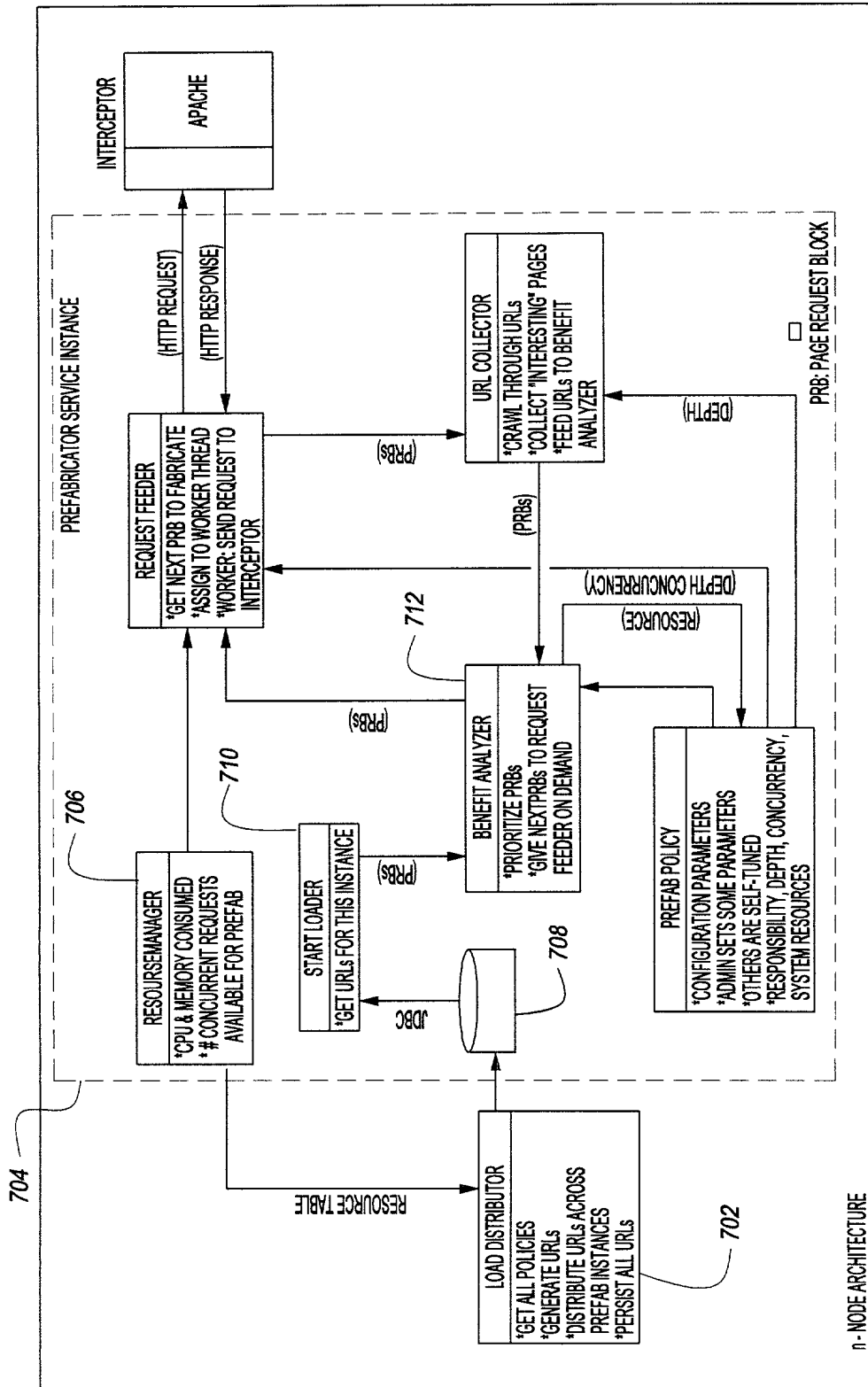


FIG. 6



| | | | |
|-----|------------------|--------------|--|
| 802 | ATTRIBUTE | DATA TYPE | DESCRIPTION |
| 804 | URI | STRING | URI THAT THE REQUEST REPRESENTS |
| 806 | USERID | INT | USERID OF THE USER THIS REQUEST BELONGS TO |
| 808 | APPID | INT | APPID THIS REQUEST BELONGS TO |
| | RESPID | INT | RESPID OF THE USER THIS REQUEST BELONGS TO |
| 810 | DEPTH | INT | STARTING FROM THE HOME PAGE, THE NUMBER OF PAGES TO BE NAVIGATED BEFORE THIS URL IS REACHED. A PAGE IS AT DEPTH 0 IF IT IS THE USER'S HOMEPAGE, DEPTH 1 IF IT IS A PAGE THAT CAN BE REACHED DIRECTLY FROM THE HOME PAGE, ETC. LOGIN PAGE IS AT DEPTH -1. |
| 812 | WEIGHT | LONG | WEIGHT ASSOCIATED WITH THIS PRB |
| 814 | HOMEPRB | PRB | PRB OF THE ENTRY PAGE TO THIS APPLICATION FOR THE USER |
| 816 | CHILDRENPRB | VECTOR (PRB) | ALL THE PRBS GATHERED FROM THIS PAGE |
| | AVGENERATIONTIME | LONG | AVERAGE PAGE GENERATION TIME |
| 818 | REFCOUNT | INT | NUMBER OF CHILDREN PRB THIS HAS |
| 820 | | | |

FIG. 8

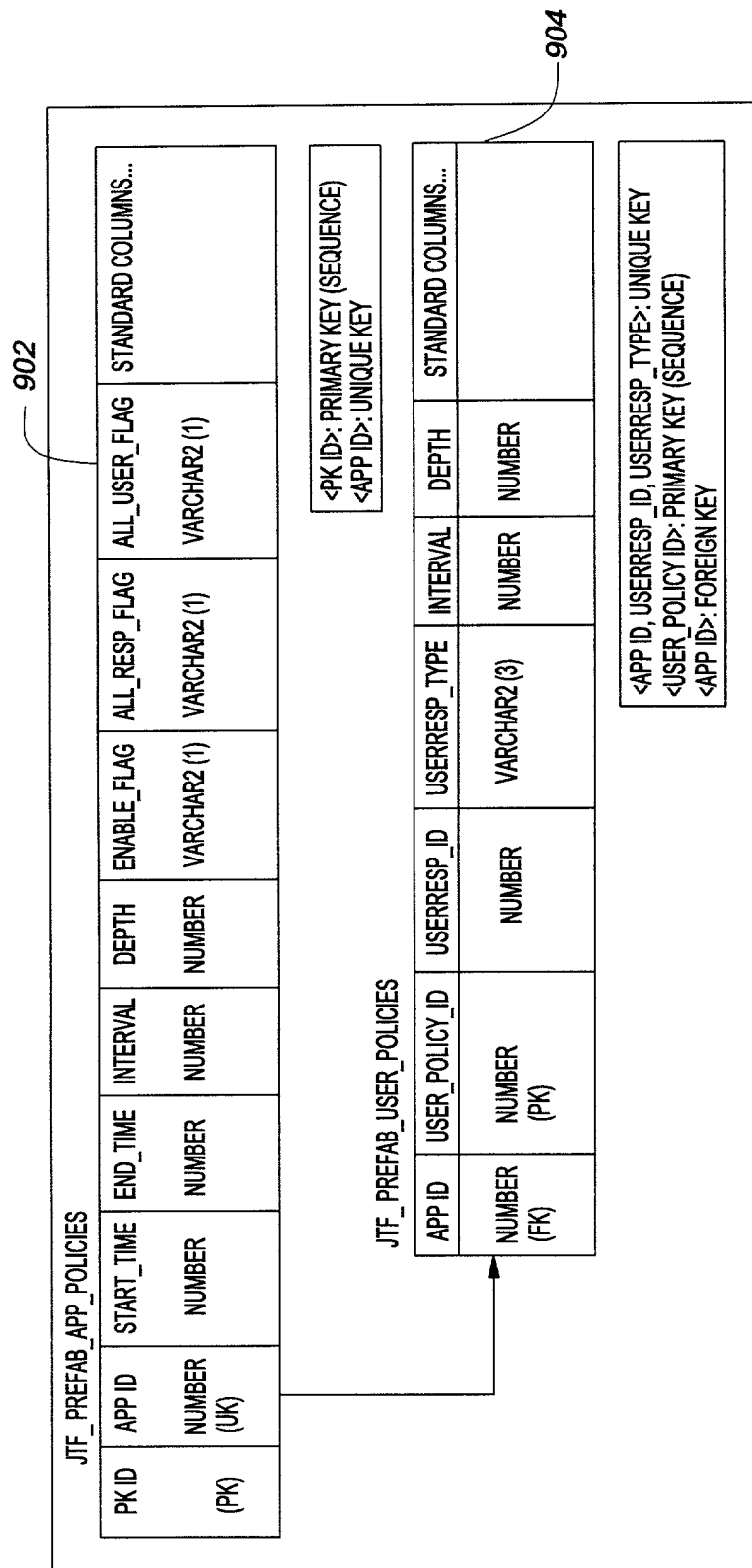


FIG. 9

| INDEX TABLE | DESCRIPTION |
|---------------------|--|
| WEIGHT INDEX | INDEXES PRBS ACCORDING TO THEIR WEIGHTS |
| DEPTH INDEX | INDEXES PRBS ACCORDING TO THEIR DEPTHS |
| URI SUBSTRING INDEX | INDEXES PRBS ACCORDING TO THEIR URI SUBSTRINGS. NOW, THE URI SUBSTRING IS DEFINED AS THE .JSP NAME OF THE PRB (E.G. JTFVALD.JSP). |
| ID INDEX | INDEXES PRBS ACCORDING TO THEIR APPID, RESPID, USERID COMBINATION. |
| URI INDEX | INDEXES PRBS ACCORDING TO THEIR URI. SINCE THIS ATTRIBUTE IS ALWAYS UNIQUE, THE DATA STRUCTURE OF THIS INDEX IS A SIMPLE HASHTABLE OF PRBS, INSTEAD OF A HASHTABLE OF VECTORS. |

FIG. 10

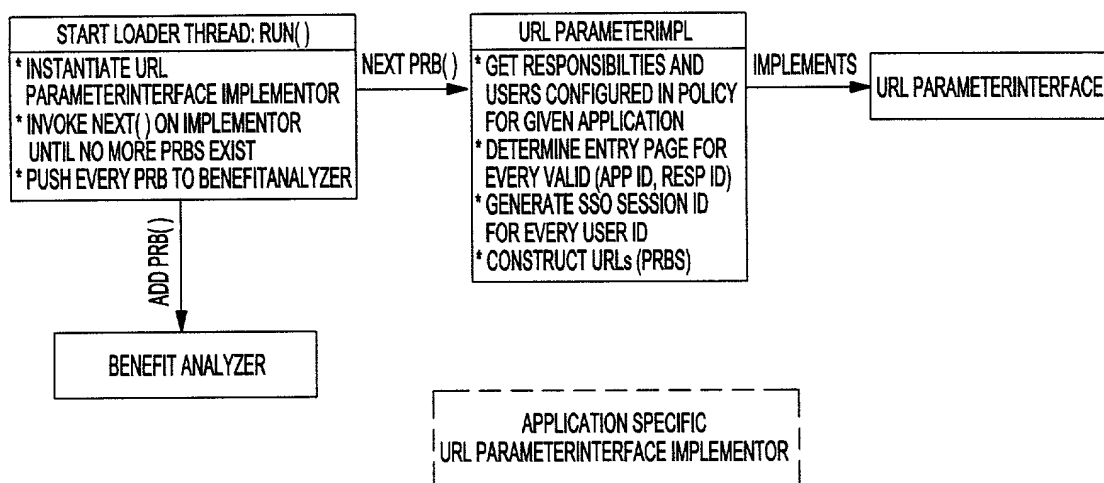
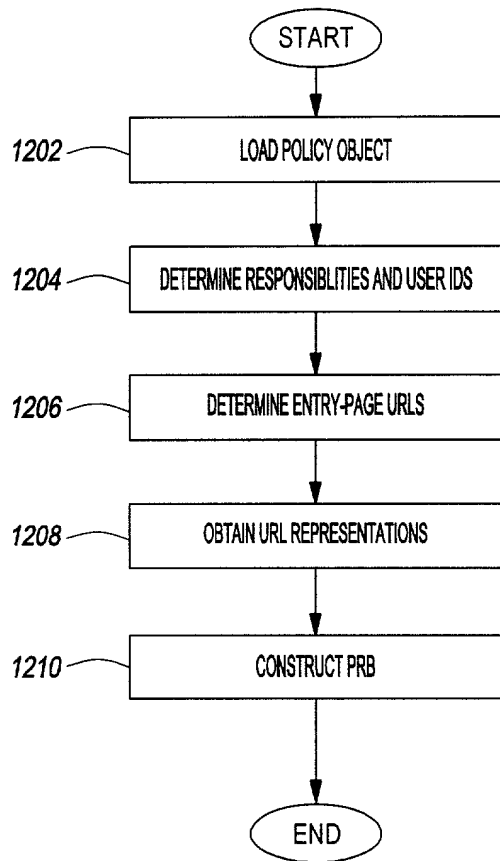


FIG. 11

*FIG. 12*

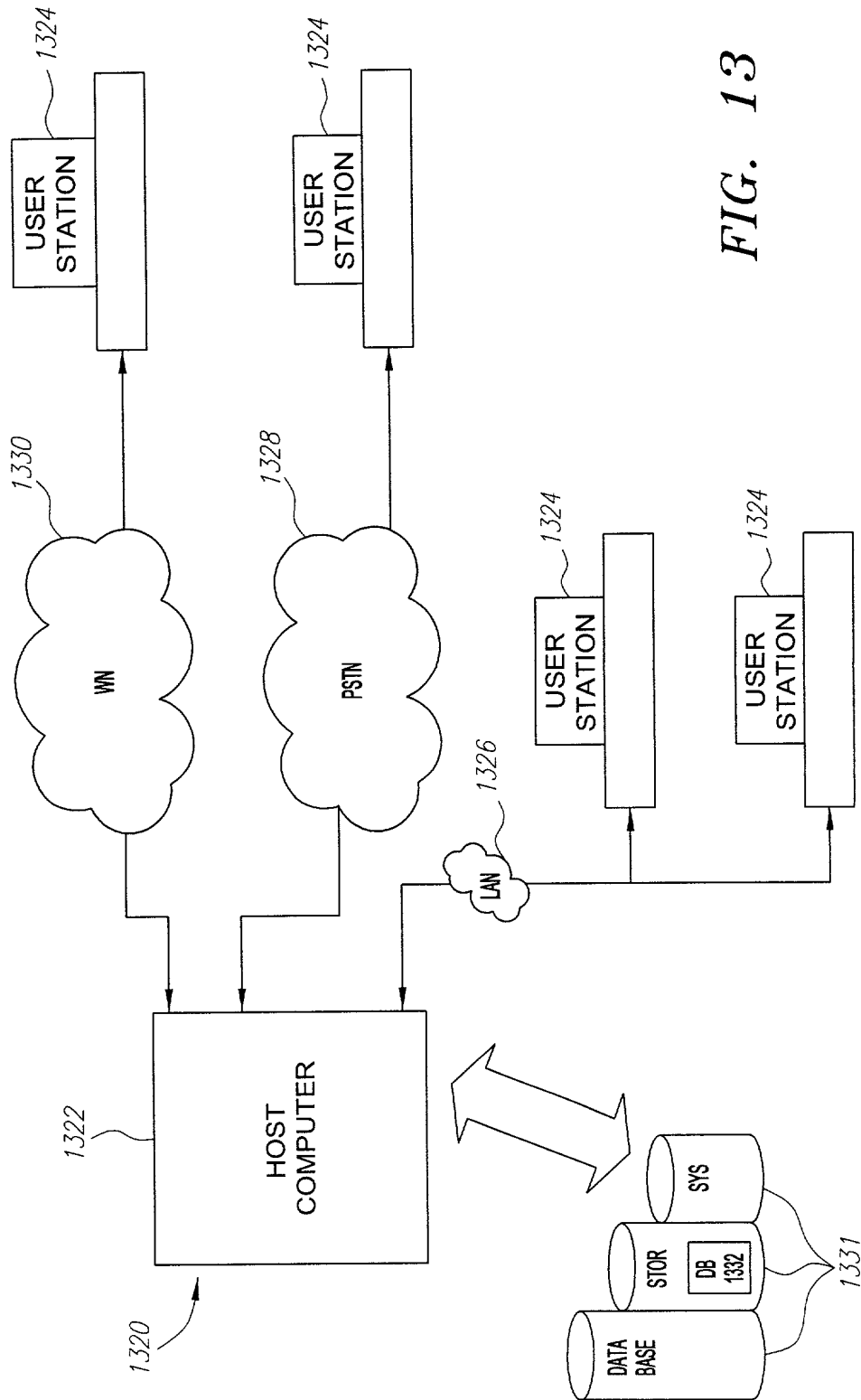


FIG. 13

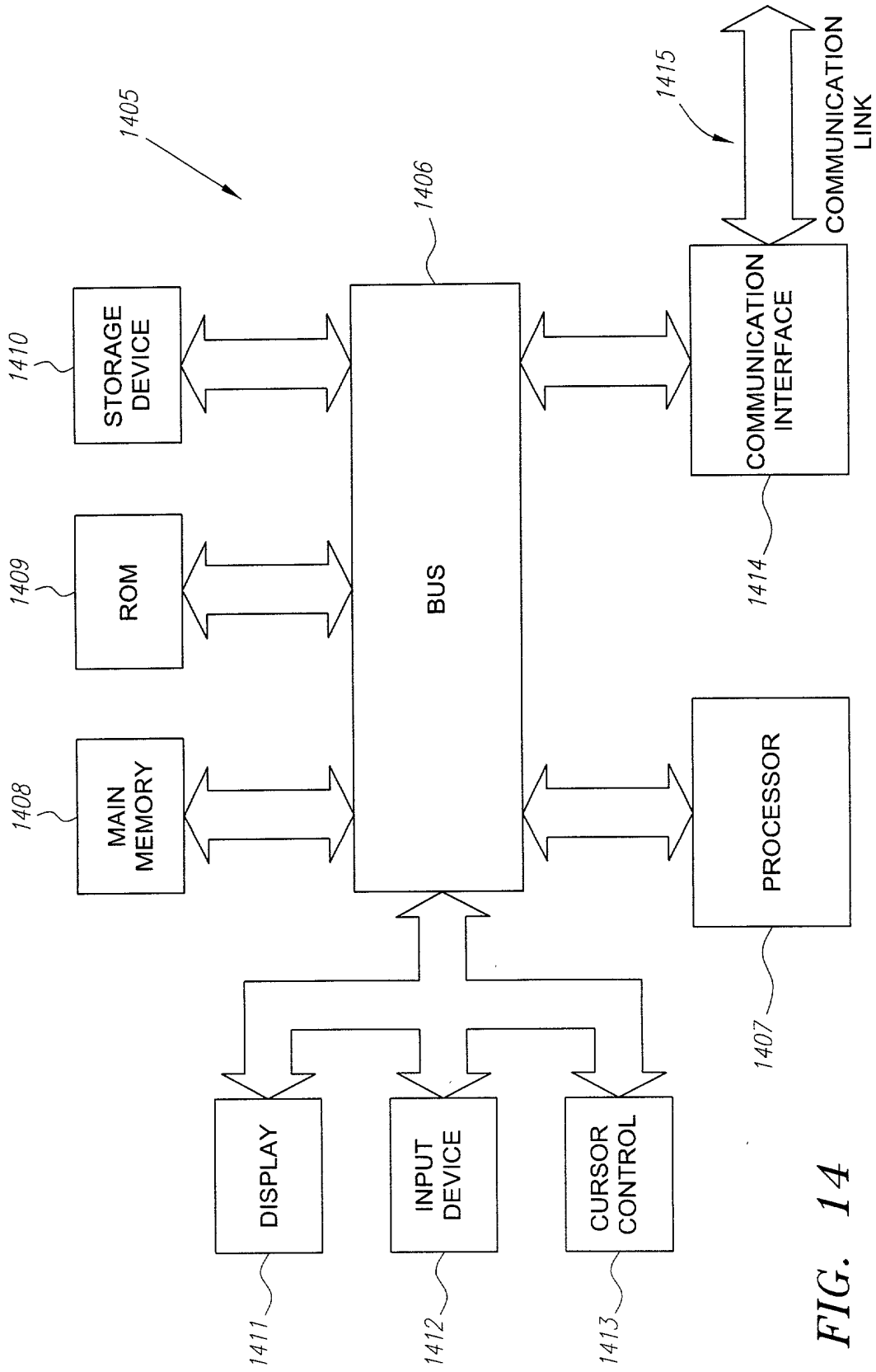


FIG. 14